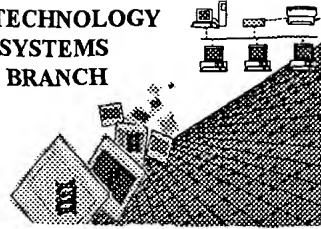BIOTECHNOLOGY
SYSTEMS
BRANCH

# RAW SEQUENCE LISTING
# ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/928,213_
Source: _QIPE_
Date Processed by STIC: _1/14/2003_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
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         **http://www.uspto.gov/web/offices/pac/checker**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**> , EFS Submission **User Manual** ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
            Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
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Revised 01/29/2002

OIPE

RAW SEQUENCE LISTING          DATE: 01/14/2003
PATENT APPLICATION: **US/09/928,213**    TIME: 13:27:28

Input Set : **A:\GA0197C.txt**
Output Set: **N:\CRF4\01142003\I928213.raw**

```
 3 <110> APPLICANT: Genzyme Corporation
 4       Srinivas, Shankara
 5       Charles, Nicolette
 7 <120> TITLE OF INVENTION: ANTIGENIC PEPTIDE CONCATOMERS
 9 <130> FILE REFERENCE: GA0197C
11 <140> CURRENT APPLICATION NUMBER: US 09/928,213
12 <141> CURRENT FILING DATE: 2001-08-10
14 <150> PRIOR APPLICATION NUMBER: PCT/US00/03655
15 <151> PRIOR FILING DATE: 2000-02-10
17 <150> PRIOR APPLICATION NUMBER: 60/120,002
18 <151> PRIOR FILING DATE: 1999-02-11
20 <150> PRIOR APPLICATION NUMBER: 60/161,845
21 <151> PRIOR FILING DATE: 1999-10-27
23 <160> NUMBER OF SEQ ID NOS: 32
25 <170> SOFTWARE: PatentIn version 3.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 18
29 <212> TYPE: PRT
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: AChR epitope
35 <400> SEQUENCE: 1
37 Tyr Asn Leu Lys Trp Asn Tyr Asn Leu Lys Trp Asn Tyr Asn Leu Lys
38 1               5                   10                  15
41 Trp Asn
45 <210> SEQ ID NO: 2
46 <211> LENGTH: 18
47 <212> TYPE: PRT
48 <213> ORGANISM: Artificial Sequence
50 <220> FEATURE:
51 <223> OTHER INFORMATION: AChR epitope
53 <400> SEQUENCE: 2
55 Pro Asp Asp Tyr Gly Gly Pro Asp Asp Tyr Gly Gly Pro Asp Asp Tyr
56 1               5                   10                  15
59 Gly Gly
63 <210> SEQ ID NO: 3
64 <211> LENGTH: 18
65 <212> TYPE: PRT
66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: AChR epitope
71 <400> SEQUENCE: 3
73 Val Lys Lys Ile His Ile Val Lys Lys Ile His Ile Val Lys Lys Ile
```

Does Not Comply
Corrected Diskette Needed

pp 4-6

RAW SEQUENCE LISTING                    DATE: 01/14/2003
PATENT APPLICATION:  US/09/928,213      TIME: 13:27:28

Input Set : A:\GA0197C.txt
Output Set: N:\CRF4\01142003\I928213.raw

74 1              5              10             15
77 His Ile
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 19
83 <212> TYPE: PRT
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: AChR epitope
89 <400> SEQUENCE: 4
91 Lys Trp Asn Pro Asp Asp Lys Trp Asn Pro Asp Asp Lys Trp Asn Pro
92 1              5              10             15
95 Asp Asp Tyr
99 <210> SEQ ID NO: 5
100 <211> LENGTH: 18
101 <212> TYPE: PRT
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: AChR epitope
107 <400> SEQUENCE: 5
109 Tyr Gly Gly Val Lys Lys Tyr Gly Gly Val Lys Lys Tyr Gly Gly Val
110 1              5              10             15
113 Lys Lys
117 <210> SEQ ID NO: 6
118 <211> LENGTH: 20
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: AChR epitope
125 <400> SEQUENCE: 6
127 Trp Asn Pro Asp Asp Tyr Gly Gly Val Lys Trp Asn Pro Asp Asp Tyr
128 1              5              10             15
131 Gly Gly Val Lys
132           20
135 <210> SEQ ID NO: 7
136 <211> LENGTH: 27
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: gp100-209 epitope concatomer
143 <400> SEQUENCE: 7
144 attactgacc aggtaccttt ctccgtg                              27
147 <210> SEQ ID NO: 8
148 <211> LENGTH: 28
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: gp100-209 epitope concatomer
155 <400> SEQUENCE: 8
156 tggtcagtaa tcacggagaa aggtacct                             28

RAW SEQUENCE LISTING      DATE: 01/14/2003
PATENT APPLICATION: **US/09/928,213**  TIME: 13:27:28

Input Set : **A:\GA0197C.txt**
Output Set: **N:\CRF4\01142003\I928213.raw**

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159 <210> SEQ ID NO: 9
160 <211> LENGTH: 30
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: gp100-209 epitope concatomer
167 <400> SEQUENCE: 9
168 ggccgatatc atgattactg accaggtacc                                30
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172 <211> LENGTH: 30
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: gp100-209 epitope concatomer
179 <400> SEQUENCE: 10
180 ggccactagt gatcacggag aaaggtacct                                30
183 <210> SEQ ID NO: 11
184 <211> LENGTH: 27
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: gp100-209 epitope concatomer
191 <400> SEQUENCE: 11
192 attactgacc aggtaccttt ctccgtg                                   27
195 <210> SEQ ID NO: 12
196 <211> LENGTH: 27
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: gp100-209 epitope concatomer
203 <400> SEQUENCE: 12
204 cacggagaaa ggtacctggt cagtaat                                   27
207 <210> SEQ ID NO: 13
208 <211> LENGTH: 107
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: gp209 epitope construct
215 <400> SEQUENCE: 13
216 aattcccacc atggcggccg caattactga ccaagtacct ttctccgtgg ctgcagctgc   60
218 tgctggtatt ggtattttaa ctgtggccgc ggcttaatta atttaac              107
221 <210> SEQ ID NO: 14
222 <211> LENGTH: 113
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: alpha-globin stability element
229 <400> SEQUENCE: 14
230 taagctggag cctcggtagc cgttcctcct gcccgctggg cctcccaacg ggccctcctc   60
```

**RAW SEQUENCE LISTING**
PATENT APPLICATION: **US/09/928,213**

DATE: 01/14/2003
TIME: 13:27:28

Input Set : **A:\GA0197C.txt**
Output Set: **N:\CRF4\01142003\I928213.raw**

```
232 ccctccttgc accggccttc ctggtctttg aataaagtct gagtgggcgg cct          113
235 <210> SEQ ID NO: 15
236 <211> LENGTH: 400
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: 9 copy recombinant concatomer
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <222> LOCATION: (45)..(45)
246 <223> OTHER INFORMATION: n is any nucleic acid
249 <220> FEATURE:
250 <221> NAME/KEY: misc_feature
251 <222> LOCATION: (61)..(61)
252 <223> OTHER INFORMATION: n is any nucleic acid
255 <220> FEATURE:
256 <221> NAME/KEY: misc_feature
257 <222> LOCATION: (72)..(72)
258 <223> OTHER INFORMATION: n is any nucleic acid
261 <220> FEATURE:
262 <221> NAME/KEY: misc_feature
263 <222> LOCATION: (88)..(88)
264 <223> OTHER INFORMATION: n is any nucleic acid
267 <220> FEATURE:
268 <221> NAME/KEY: misc_feature
269 <222> LOCATION: (99)..(99)
270 <223> OTHER INFORMATION: n is any nucleic acid
273 <220> FEATURE:
274 <221> NAME/KEY: misc_feature
275 <222> LOCATION: (115)..(115)
276 <223> OTHER INFORMATION: n is any nucleic acid
279 <220> FEATURE:
280 <221> NAME/KEY: misc_feature
281 <222> LOCATION: (126)..(126)
282 <223> OTHER INFORMATION: n is any nucleic acid
285 <220> FEATURE:
286 <221> NAME/KEY: misc_feature
287 <222> LOCATION: (132)..(132)
288 <223> OTHER INFORMATION: n is any nucleic acid
291 <220> FEATURE:
292 <221> NAME/KEY: misc_feature
293 <222> LOCATION: (142)..(142)
294 <223> OTHER INFORMATION: n is any nucleic acid
297 <220> FEATURE:
298 <221> NAME/KEY: misc_feature
299 <222> LOCATION: (153)..(153)
300 <223> OTHER INFORMATION: n is any nucleic acid
303 <220> FEATURE:
304 <221> NAME/KEY: misc_feature
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*see p.5 "c" is at location 132*

RAW SEQUENCE LISTING                    DATE: 01/14/2003
PATENT APPLICATION:   US/09/928,213     TIME: 13:27:28

Input Set : A:\GA0197C.txt
Output Set: N:\CRF4\01142003\I928213.raw

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305 <222> LOCATION: (169)..(169)
306 <223> OTHER INFORMATION: n is any nucleic acid
309 <220> FEATURE:
310 <221> NAME/KEY: misc_feature
311 <222> LOCATION: (180)..(180)
312 <223> OTHER INFORMATION: n is any nucleic acid
315 <220> FEATURE:
316 <221> NAME/KEY: misc_feature
317 <222> LOCATION: (196)..(196)
318 <223> OTHER INFORMATION: n is any nucleic acid
321 <220> FEATURE:
322 <221> NAME/KEY: misc_feature
323 <222> LOCATION: (207)..(207)
324 <223> OTHER INFORMATION: n is any nucleic acid
327 <220> FEATURE:
328 <221> NAME/KEY: misc_feature
329 <222> LOCATION: (223)..(223)
330 <223> OTHER INFORMATION: n is any nucleic acid
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334 <221> NAME/KEY: misc_feature
335 <222> LOCATION: (234)..(234)
336 <223> OTHER INFORMATION: n is any nucleic acid
339 <220> FEATURE:
340 <221> NAME/KEY: misc_feature
341 <222> LOCATION: (380)..(380)
342 <223> OTHER INFORMATION: n is any nucleic acid
345 <400> SEQUENCE: 15
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```
W--> 346 atgattactg accaggtacc tttctccgtg attactgacc aggtnccttt ctccgtgatt     60
W--> 348 nctgaccagg tncctttctc cgtgattnct gaccaggtnc ctttctccgt gattnctgac    120
W--> 350 caggtncctt tctccgtgat tnctgaccag gtncctttct ccgtgattnc tgaccaggtn    180
W--> 352 cctttctccg tgattnctga ccaggtncct ttctccgtga ttnctgacca ggtncctttc    240
     354 tccgtgtaaa ctagagggcc ctattctata gtgtcaccta aatgctagag ctcgctgatc    300
     356 agcctcgact gtgccttcta gttgccagcc atctgttgtt tgccctcccc ccgtgccttc    360
W--> 358 cttgaccctg gaaggtgccn ctcccactgt cctttcctaa                          400
```

```
361 <210> SEQ ID NO: 16
362 <211> LENGTH: 30
363 <212> TYPE: DNA
364 <213> ORGANISM: Artificial Sequence
366 <220> FEATURE:
367 <223> OTHER INFORMATION: 9 copy recombinant concatomer
369 <400> SEQUENCE: 16
370 atgattactg accaggtacc tttctccgtg                                        30
373 <210> SEQ ID NO: 17
374 <211> LENGTH: 27
375 <212> TYPE: DNA
376 <213> ORGANISM: Artificial Sequence
378 <220> FEATURE:
379 <223> OTHER INFORMATION: jmpl str
381 <400> SEQUENCE: 17
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RAW SEQUENCE LISTING ERROR SUMMARY     DATE: 01/14/2003
PATENT APPLICATION:  US/09/928,213     TIME: 13:27:29

Input Set : A:\GA0197C.txt
Output Set: N:\CRF4\01142003\I928213.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:15; N Pos. 45,61,72,88,99,115,126,142,153,169,180,196,207,223,234,380
Seq#:18; N Pos. 15
Seq#:20; N Pos. 4,15
Seq#:22; N Pos. 4,15
Seq#:24; N Pos. 4,15
Seq#:26; N Pos. 4,15
Seq#:28; N Pos. 4,15
Seq#:30; N Pos. 4,15
Seq#:32; N Pos. 4,15